

MoDOT Social and Economic Indicator Resource (SEIR)

Summary

The MoDOT Socio-Economic Indicator Resource can be found on the World Wide Web at: <http://oseda.missouri.edu/modot>. This resource is the end result of a yearlong research effort centered on providing timely and authoritative social and economic data relevant for transportation planning and project delivery.

Social and Economic data in the forms of maps, charts and tables were created for MoDOT planning districts, regional and metropolitan planning organizations, and future corridor analyses.

Introduction

The detailed demographic, social and economic characteristics of Missouri are essential elements of MoDOT planning, project development and Environmental Justice functions. Access to such information and its application has been problematic. There is a very great quantity of data from many sources in many different formats with unspecified reliability organized in differing geographic layers. Prior to this project it was not clear how social and economic indicators should best be aligned for analysis for transportation functions. Also, there were no integrated sets of reports or information system tools available for these data. Neither was there a training program in place to encourage the appropriate use of such information. Future transportation planning needs up-to-date social and economic information that is relevant, authoritative, convenient and understandable. The Socio-Economic Indicator Resource (SEIR) web site makes data, maps, tables, charts and graphics, and analysis available at the level of geography meaningful to MoDOT personnel.

Objectives

The objectives of this research were to identify the relevant social and economic data for use at MoDOT, and then to develop and implement authoritative information products and electronic applications that could be easily used by MoDOT personnel for planning, project development, and for Title VI of the Civil Rights Act and Environmental Justice applications.

- Develop and implement a social and economic indicator database.
- Develop and implement various content formats for display on the World Wide Web.
- Provide training on the understanding and use of the social and economic data.

Results

The result of this research and development endeavor is the MoDOT SEIR web site. It provides necessary information in useful forms for transportation planning and project development including:

- 1990 and 2000 cross-sectional and trend data from the census for all Missouri transportation administrative units: MoDOT planning districts, regional planning commissions, metropolitan planning organizations and counties.



- Selected social and economic indicators in small area geographic units ranging from block group to county for each administrative unit.
- Indicators in multiple formats (gif, pdf, html) and forms (maps, tables, charts, reports) designed to be easily incorporated into software widely used by transportation planners such as web browsers, Word, Excel and Power Point.
- A web-based, interactive data query tool that guides users to easily download selected transportation related indicators for particular areas in formats convenient for spreadsheet, database, and statistical software packages.
- A demonstrated methodology for specific Corridor analyses.
- A structural equation model for inferential analyses of the relationship between environmental justice populations and indicators related to poverty, mobility, educational attainment, and housing.

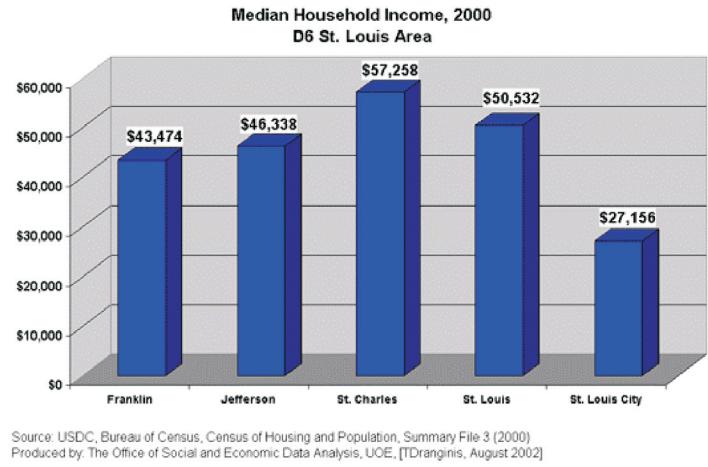
Conclusions

The project has been successful in increasing the use of census data in long-range and project planning, environmental clearance, and in providing a basis for Title VI, Environmental Justice and Limited English Proficiency applications related to department functions. Aside from the success with increased efficiency of personnel to acquire information of this type, the project has been successful in developing and implementing a technological infrastructure that not only delivers the data in a variety of forms and formats, but has been built in such a way as to allow for further development and enhancements.

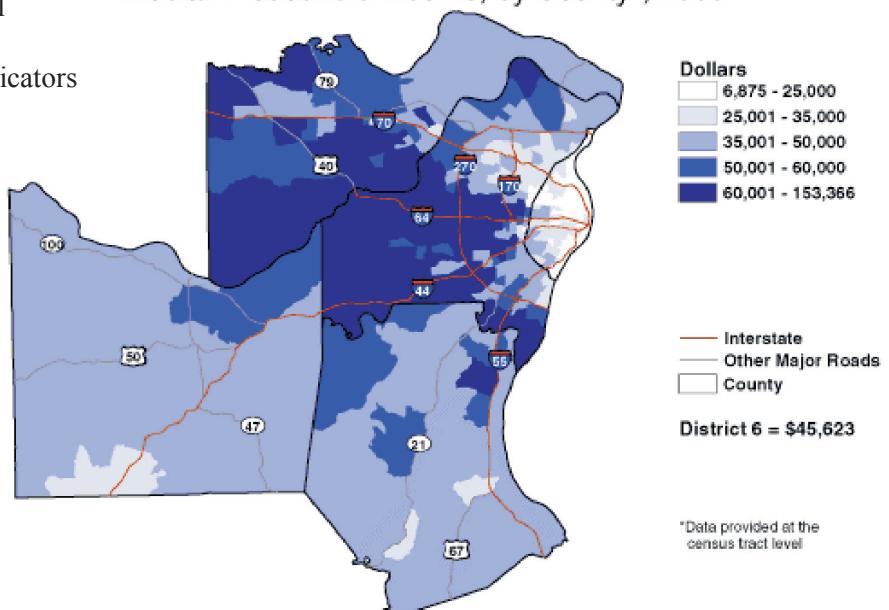
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**MoDOT Planning District 6
Median Household Income, by County*, 2000**



Source: USDC, Bureau of the Census, Census of Population and Housing [2000 SF3]
Prepared for MoDOT by: Office of Social and Economic Data Analysis (OSEDA)
Map Generated on 1.13.2003

**Median Household and Family Income, 1989-1999
D6 St. Louis**

Area Summarized		Median Household Income (1999 \$)				Median Family Income (1999 \$)			
County				Change, 1989-1999				Change, 1989-1999	
FIPS Code		1999	1989	Number	Percent	1999	1989	Number	Percent
	D6 St. Louis	\$46,184	\$43,234	\$2,951	6.8	\$55,990	\$51,841	\$4,149	8.0
29071	Franklin	\$43,474	\$37,342	\$6,132	16.4	\$50,122	\$42,657	\$7,465	17.5
29099	Jefferson	\$46,338	\$42,115	\$4,223	10.0	\$51,787	\$46,397	\$5,390	11.6
29183	St. Charles	\$57,258	\$52,587	\$4,671	8.9	\$64,415	\$58,232	\$6,183	10.6
29189	St. Louis	\$50,532	\$49,742	\$790	1.6	\$61,680	\$58,988	\$2,692	4.6
29510	St. Louis City	\$27,156	\$25,386	\$1,770	7.0	\$32,585	\$31,669	\$916	2.9

Source: 1990 and 2000 Decennial Census, Summary File 3
Prepared by University Outreach & Extension - Office of Social & Economic Data Analysis (OSEDA)
Note: Median values for regions are weighted averages of county median values.
Report generated on 17JUL2002 by setup in moco_median_incomes_1989_1999